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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/060,458	01/30/2002	Fumiaki Arai	58122-Z CCD	6616
75	590 12/21/2005		EXAMI	NER
Christopher C. Dunham			PARKER, FREDERICK JOHN	
c/o Cooper & Dunham LLP 1185 Ave. of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER
			1762	
			DATE MAILED: 12/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1/

	Application No.	Applicant(s)			
Office Assists Commence	10/060,458	ARAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Frederick J. Parker	1762			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any					
earned patent term adjustment. See 37 CFR 1.704(b). Status					
Responsive to communication(s) filed on 16 February 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 11-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) Notice of References Cited (PTO-892)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 2/16/05 has been entered.

Information Disclosure Statement

2. The IDS dated 2/16/05 has been considered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 11-15,21 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 05-262057 (JP057).

JP057 teaches forming a thermal sensitive porous sheet comprising a plastic film base [0011] on which is applied a porous resin imaging layer. The layer is formed using a water/oil emulsion, a thermoplastic polyurethane resin added drop wise and distributed into the oil phase, within the water phase is inherently discontinuously distributed in the oil by virtue of their inherent surface

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tension properties [0013-14]. The applied coating is dried to form the porous coating. The formulation also includes an emulsifier to form an emulsion and an organic solvent [0012,0014].

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP057 in view of GB 2306689 (GB689).

JP057 is cited for the same reasons previously discussed, which are incorporated herein.

Alternate resin film formers and layer properties are not cited.

GB689 forms a porous thermal sensitive stencil sheet comprising a porous resin layer on a thermoplastic film using the process described on page 8, 23 to page 9, 30, which is similar to the concept of the multi-phase coating system of JP057. GB689 teaches resin layer materials including polyvinyl butyral resin (p.6, 31) per claim 16, and it therefore would have been

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obvious to substitute the film forming resin of GB689 for that of JP057 because the resins are disclosed to be suitable for the same purpose. The reference provides specific criteria for coated porous sheets including a flexural rigidity of 5-200N to allow proper transfer in a printer; porosity of 1-157 cc/cm2-sec; average pore size diameters of 2-50 microns and a total porosity of 4-80%, which meet or overlap the ranges of Applicants claims 17,18,20. The subject matter as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made if the overlapping portion of the ranges disclosed by the reference were selected because overlapping ranges have been held to be a prima facie case of obviousness, see In re Wortheim 191 USPQ 90. Fillers are cited on p.7, 10 per claim 19 to control strength, stiffness, and pore sizes of the resin coatings.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the process of JP057 by incorporating the fillers and substituting alternate film resins, and to optimize the film properties to meet the criteria set forth by GB689 to provide thermally sensitive porous stencil sheets with optimal/ useful porosity/pore size and mechanical properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick J. Parker whose telephone number is 571/272-1426. The examiner can normally be reached on Mon-Thur. 6:15am -3:45pm, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571/272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

rederick J. Parker rimary Examiner

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